WHAT IS CLAIMED IS:

- 1. A conversion circuit for a brushless dc motor connected with a dc motor drive circuit, comprising:
- a rectifier unit electrically connected to an ac power source to thereby

 supply with a dc voltage suitable for the brushless dc motor;
 - a voltage-stabilizing control unit electrically connected between the rectifier unit and the dc motor drive circuit; and
 - a voltage-stabilizing unit electrically connected between the voltagestabilizing control unit and the dc motor drive circuit, and adapted to supply with the stabilized dc voltage to the dc motor drive circuit;

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wherein the dc voltage supplied from the rectifier unit is passed through the voltage-stabilizing control unit and the voltage-stabilizing unit to turn on or off the dc motor drive circuit, thereby limiting a passage of a high voltage through the dc motor drive circuit and providing with the stabilized dc voltage for the dc motor drive circuit.

- 2. The conversion circuit for the brushless dc motor as defined in Claim 1, wherein the rectifier unit is selected from a group consisted of a bridge recitifer and a diode.
- 3. The conversion circuit for the brushless dc motor as defined in Claim
 20 1, further comprising a pulse-wave-absorbing unit serially connected between

the rectifier unit and the dc motor drive circuit.

- 4. The conversion circuit for the brushless dc motor as defined in Claim3, wherein the pulse-wave-absorbing unit is a varistor.
- 5. The conversion circuit for the brushless dc motor as defined in Claim
 1, further comprising a filter unit serially connected between the rectifier unit
 and the dc motor drive circuit.
 - 6. The conversion circuit for the brushless dc motor as defined in Claim5, wherein the filter unit is a capacitor.
- 7. The conversion circuit for the brushless dc motor as defined in Claim
 10 1, wherein the voltage-stabilizing control unit includes an operational amplifier, a diode, a first resistor, a second resistor, a third resistor, a first capacitor, a fourth resistor and a second capacitor.
 - 8. The conversion circuit for the brushless dc motor as defined in Claim 7, wherein the diode, the first resistor, the third resistor and the first capacitor are commonly provided with a predetermined floating value of a reference voltage input into the operational amplifier for comparing with the dc voltage.

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9. The conversion circuit for the brushless dc motor as defined in Claim 1, wherein the voltage-stabilizing unit is a Metal-Oxide Semiconductor Field Effect Transistor.